

## Data interface - PSR-M-GW-CAN-PI - 1105105

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Gateway for connecting a PSR-M base module to a higher-level controller, CANopen<sup>®</sup>, TBUS interface, plug-in Push-in terminal block, TBUS connector included

### Product Description

The configurable and individually scalable PSRmodular safety system is a flexible safety solution for monitoring your machine or system. PSRmodular gateways connect a PSR-M basic module to a higher-level controller. This gateway is intended for use with CANopen<sup>®</sup>.

### Your advantages

- ✓ Economical safety solution with a high level of adaptability to individual requirements
- ✓ Fast startup, thanks to easy hardware and software configuration
- ✓ Machine downtime minimized with comprehensive, easy-to-understand diagnostics
- ✓ Tool-free and time-saving installation with Push-in technology
- ✓ Low housing width of only 22.5mm

RoHS



### Key Commercial Data

|              |                                                                                      |
|--------------|--------------------------------------------------------------------------------------|
| Packing unit | 1 pc                                                                                 |
| GTIN         |  |
| GTIN         | 4055626971087                                                                        |

### Technical data

#### Dimensions

|        |          |
|--------|----------|
| Width  | 22.5 mm  |
| Height | 116.4 mm |
| Depth  | 114.5 mm |

#### Ambient conditions

|                                                |                                     |
|------------------------------------------------|-------------------------------------|
| Ambient temperature (operation)                | -10 °C ... 55 °C (observe derating) |
| Ambient temperature (storage/transport)        | -20 °C ... 85 °C                    |
| Max. permissible relative humidity (operation) | 95 % (non-condensing)               |

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## Technical data

### Ambient conditions

|                                               |                            |
|-----------------------------------------------|----------------------------|
| Max. permissible humidity (storage/transport) | 95 % (non-condensing)      |
| Maximum altitude                              | ≤ 2000 m (Above sea level) |

### Power supply

|                                            |                                                      |
|--------------------------------------------|------------------------------------------------------|
| Designation                                | A1/A2                                                |
| Rated control circuit supply voltage $U_s$ | 24 V DC -20 % / +20 % (external fuse, typically 4 A) |
| Rated control supply current $I_s$         | typ. 35 mA (without network connection)              |
|                                            | typ. 40 mA (with network connection)                 |
| Power consumption at $U_s$                 | typ. 1 W (with network connection)                   |
| Inrush current                             | < 2.2 A ( $\Delta t = 1$ ms at $U_s$ )               |
| Filter time                                | typ. 5 ms (in the event of voltage dips at $U_s$ )   |
| Protective circuit                         | Serial protection against polarity reversal          |
|                                            | Suppressor diode                                     |

### Device interface

|                        |                          |
|------------------------|--------------------------|
| Designation            | Network interface        |
| Communication protocol | CANopen®                 |
| Connection method      | D-SUB-9 female connector |
| Number of connections  | 1                        |
| Transmission speed     | 1 Mbps                   |
| Transmission length    | max. 20 m                |
| Designation            | Service interface        |
| Connection method      | USB 2.0 Hi-Speed         |
| Number of connections  | 1                        |
| Maximum cable length   | 3 m                      |

### General

|                                             |                                                      |
|---------------------------------------------|------------------------------------------------------|
| Nominal operating mode                      | 100% operating factor                                |
| Net weight                                  | 125 g                                                |
| Mounting position                           | vertical or horizontal                               |
| Mounting type                               | DIN rail mounting                                    |
| Degree of protection                        | IP20                                                 |
| Min. degree of protection of inst. location | IP54                                                 |
| Protection class                            | III (EN 50178)                                       |
| Housing material                            | Polyamide PA non-reinforced                          |
| Housing color                               | gray                                                 |
| Operating voltage display                   | 1 x green LED                                        |
| Status display                              | 1 x LED (green), 1 x LED (green, red), 1 x LED (red) |
| Indication                                  | 2 x LED (red)                                        |

### Connection data

|                   |                    |
|-------------------|--------------------|
| Connection method | Push-in connection |
|-------------------|--------------------|

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## Technical data

## Connection data

|                                       |         |
|---------------------------------------|---------|
| pluggable                             | Yes     |
| Conductor cross section solid min.    | 0.2 mm² |
| Conductor cross section solid max.    | 2.5 mm² |
| Conductor cross section flexible min. | 0.2 mm² |
| Conductor cross section flexible max. | 2.5 mm² |
| Conductor cross section AWG min.      | 24      |
| Conductor cross section AWG max.      | 16      |
| Stripping length                      | 10 mm   |

## Standards and Regulations

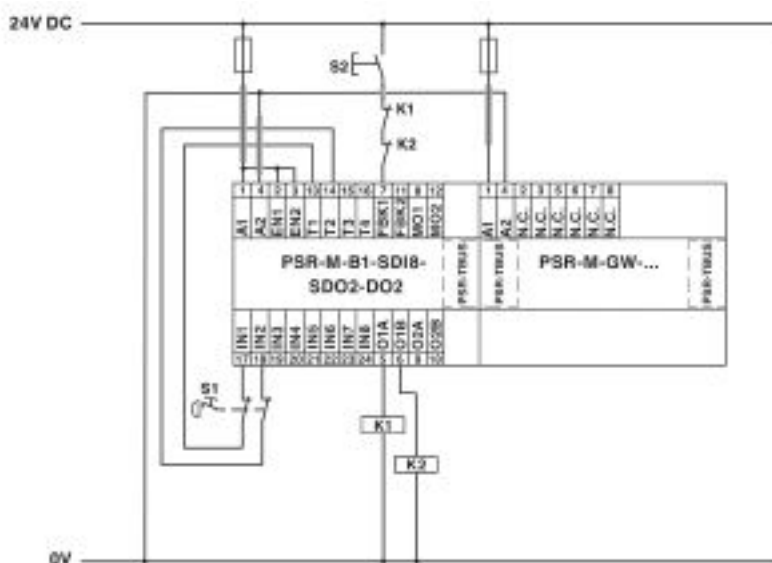
|                                |                                                                                    |
|--------------------------------|------------------------------------------------------------------------------------|
| Standards/regulations          | EN 50178                                                                           |
| Rated insulation voltage       | 250 V AC                                                                           |
| Rated surge voltage/insulation | Basic insulation 4 kV                                                              |
| Degree of pollution            | 2                                                                                  |
| Overvoltage category           | II                                                                                 |
| Shock                          | 10g for $\Delta t = 16$ ms (continuous shock, 1000 shocks in each space direction) |
| Vibration (operation)          | 10 Hz ... 150 Hz, 2g                                                               |
| Conformance                    | CE-compliant                                                                       |

## Environmental Product Compliance

|            |                                                         |
|------------|---------------------------------------------------------|
| China RoHS | Environmentally friendly use period: unlimited = EFUP-e |
|            | No hazardous substances above threshold values          |

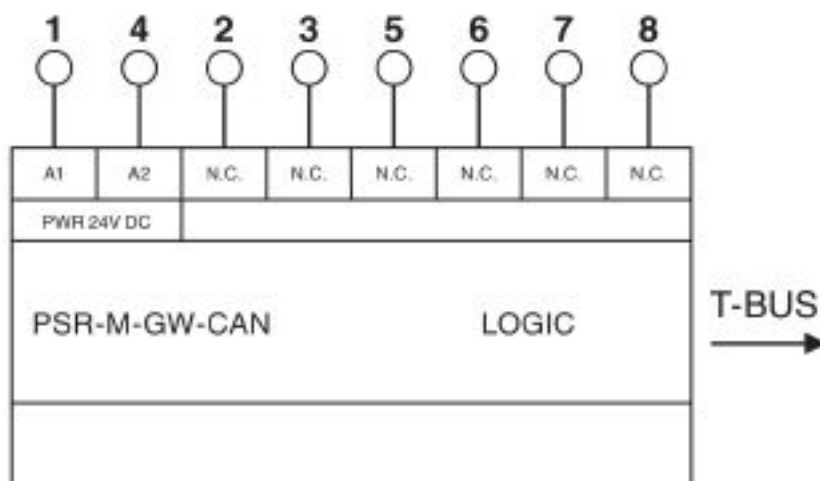
## Drawings

### Application drawing



## Data interface - PSR-M-GW-CAN-PI - 1105105

Block diagram



### Classifications

#### eCl@ss

|               |          |
|---------------|----------|
| eCl@ss 10.0.1 | 27242608 |
| eCl@ss 8.0    | 27242608 |
| eCl@ss 9.0    | 27242608 |

#### ETIM

|          |          |
|----------|----------|
| ETIM 5.0 | EC001604 |
|----------|----------|

### Approvals

#### Approvals

#### Approvals

UL Listed / cUL Listed / cULus Listed

#### Ex Approvals

#### Approval details

UL Listed



<http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm>

FILE E 238705

## Data interface - PSR-M-GW-CAN-PI - 1105105

### Approvals

cUL Listed



<http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm>

FILE E 238705

cULus Listed



### Accessories

#### Accessories

#### Coding element

Coding profile - CP-MSTB - 1734634



Coding profile, is inserted into the slot on the plug or inverted header, red insulating material

Coding section - CR-MSTB - 1734401



Coding section, inserted into the recess in the header or the inverted plug, red insulating material

#### Programming cable

USB cable - CABLE-USB/MINI-USB-3,0M - 2986135



USB connecting cable: USB plug type A to USB plug type Mini-B; length: 3 m

#### Safety device

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### Accessories

#### Safety module - PSR-M-B1-SDI8-SDO2-DO2-SC - 1104981



Configurable safety module (basic module), 8 safe inputs, 2 safe outputs, 2 reset inputs, 2 signal outputs, 4 clock outputs, can be extended via TBUS, up to SILCL 3, Cat. 4/PL e, SIL 3, plug-in screw terminal block, TBUS connector not included

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#### Safety module - PSR-M-B1-SDI8-SDO2-DO2-PI - 1104972



Configurable safety module (basic module), 8 safe inputs, 2 safe outputs, 2 reset inputs, 2 signal outputs, 4 clock outputs, can be extended via TBUS, up to SILCL 3, Cat. 4/PL e, SIL 3, plug-in Push-in terminal block, TBUS connector not included

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#### Safety module - PSR-M-B2-SDI8-SDO4-DO4-SC - 1104974



Configurable safety module (basic module), 8 safe inputs, 4 safe outputs, 4 reset inputs or 4 signal outputs, 4 clock outputs, can be extended via TBUS, up to SILCL 3, Cat. 4/PL e, SIL 3, plug-in screw terminal block, TBUS connector not included

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#### Safety module - PSR-M-B2-SDI8-SDO4-DO4-PI - 1104975



Configurable safety module (basic module), 8 safe inputs, 4 safe outputs, 4 reset inputs or 4 signal outputs, 4 clock outputs, can be extended via TBUS, up to SILCL 3, Cat. 4/PL e, SIL 3, plug-in Push-in terminal block, TBUS connector not included

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